



IFWO

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/722,849

DATE: 10/15/2004

TIME: 11:49:43

Input Set : N:\AMC\US10722849.raw

Output Set: N:\CRF4\10152004\J722849.raw

1 <110> APPLICANT: MA, Jing  
 2 GUO, Yajun  
 3 <120> TITLE OF INVENTION: ANTIBODIES SPECIFIC FOR CANCER  
 4 ASSOCIATED ANTIGEN SM5-1 AND USES THEREOF  
 5 <130> FILE REFERENCE: 549062000100  
 6 <140> CURRENT APPLICATION NUMBER: US/10/722,849  
 7 <141> CURRENT FILING DATE: 2003-11-26  
 8 <150> PRIOR APPLICATION NUMBER: CN 03129123.6  
 9 <151> PRIOR FILING DATE: 2003-06-06  
 10 <160> NUMBER OF SEQ ID NOS: 14  
 11 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 13 <210> SEQ ID NO: 1  
 14 <211> LENGTH: 119  
 15 <212> TYPE: PRT  
 16 <213> ORGANISM: Homo Sapiens  
 17 <400> SEQUENCE: 1  
 18 Gln Val Gln Leu Val Gln Ser Gly Gly Gly Val Val Gln Pro Gly Arg  
 19 1 5 10 15  
 20 Ser Leu Arg Leu Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr  
 21 20 25 30  
 22 Val Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile  
 23 35 40 45  
 24 Gly Tyr Ile Val Pro Tyr Asn Asp Gly Thr Lys Tyr Asn Glu Lys Phe  
 25 50 55 60  
 26 Lys Gly Arg Phe Thr Ile Ser Ser Asp Lys Ser Lys Ser Thr Ala Phe  
 27 65 70 75 80  
 28 Leu Gln Met Asp Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys  
 29 85 90 95  
 30 Ala Arg Gly Ser Arg Tyr Asp Trp Tyr Leu Asp Tyr Trp Gly Gln Gly  
 31 100 105 110  
 32 Thr Pro Val Thr Val Ser Ser  
 33 115  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 113  
 37 <212> TYPE: PRT  
 38 <213> ORGANISM: Homo Sapiens  
 39 <400> SEQUENCE: 2  
 40 Asn Ile Met Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly  
 41 1 5 10 15  
 42 Asp Arg Val Thr Ile Thr Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser  
 43 20 25 30  
 44 Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Thr Pro Gly Lys  
 45 35 40 45



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46   Ala Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
47       50                      55                      60
48   Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr Phe Thr
49   65                      70                      75                      80
50   Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys His Gln
51       85                      90                      95
52   Tyr Phe Ser Ser Tyr Thr Phe Gly Gln Gly Thr Lys Leu Gln Ile Thr
53       100                      105                      110
54   Arg
56 <210> SEQ ID NO: 3
57 <211> LENGTH: 119
58 <212> TYPE: PRT
59 <213> ORGANISM: Mus Musculus
60 <400> SEQUENCE: 3
61   Glu Val Gln Leu Gln Gln Ser Gly Pro Glu Leu Val Lys Pro Gly Ala
62       1                      5                      10                      15
63   Ser Val Lys Met Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr Ser Tyr
64       20                      25                      30
65   Val Met His Trp Val Lys Gln Lys Pro Gly Gln Gly Leu Asp Trp Ile
66       35                      40                      45
67   Gly Tyr Ile Val Pro Tyr Asn Asp Gly Thr Lys Tyr Asn Glu Lys Phe
68       50                      55                      60
69   Lys Gly Lys Ala Thr Leu Thr Ser Asp Lys Ser Ser Ser Thr Ala Tyr
70   65                      70                      75                      80
71   Met Glu Leu Ser Arg Leu Thr Ser Glu Asp Ser Ala Val Tyr Tyr Cys
72       85                      90                      95
73   Val Tyr Gly Ser Arg Tyr Asp Trp Tyr Leu Asp Val Trp Gly Ala Gly
74       100                      105                      110
75   Thr Thr Val Thr Val Ser Ser
76       115
78 <210> SEQ ID NO: 4
79 <211> LENGTH: 113
80 <212> TYPE: PRT
81 <213> ORGANISM: Mus Musculus
82 <400> SEQUENCE: 4
83   Asn Ile Met Met Thr Gln Ser Pro Ser Ser Leu Ala Val Ser Ala Gly
84       1                      5                      10                      15
85   Glu Lys Val Thr Met Ser Cys Lys Ser Ser Gln Ser Val Leu Tyr Ser
86       20                      25                      30
87   Ser Asn Gln Lys Asn Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln
88       35                      40                      45
89   Ser Pro Lys Leu Leu Ile Tyr Trp Ala Ser Thr Arg Glu Ser Gly Val
90       50                      55                      60
91   Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr
92   65                      70                      75                      80
93   Ile Ser Ser Val Gln Ala Glu Asp Leu Ala Val Tyr Tyr Cys His Gln
94       85                      90                      95
95   Tyr Phe Ser Ser Tyr Thr Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys
96       100                      105                      110

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97      Arg
99 <210> SEQ ID NO: 5
100 <211> LENGTH: 357
101 <212> TYPE: DNA
102 <213> ORGANISM: Homo Sapiens
103 <400> SEQUENCE: 5
104      caggtgcagc tgggtgcagtc tggcggtgga gtggtccagc cgggccgcag cctgaggctg 60
105      tcctgcaagg catctggcta caccttcacc agctacgtga tgacatgggt gcgccaagcc 120
106      cccggaaaagg gcctcgaatg gattggctac attgtgcctt ataatgacgg tactaagtac 180
107      aatgaaaagt tcaagggcag atttacaata tcaagtgaca agagcaagtc aaccgcattc 240
108      ctccaaatgg acagcttgcg tccagaggac accgccgtat actattgtgt gcgcgggcagc 300
109      cgttacgact ggtacttggg ctactggggc caaggcactc cagtcaccgt ctctctct 357
111 <210> SEQ ID NO: 6
112 <211> LENGTH: 339
113 <212> TYPE: DNA
114 <213> ORGANISM: Homo Sapiens
115 <400> SEQUENCE: 6
116      aacatcatga tgactcagag cccatccagc ttgagcgcac cagtaggcga ccgcgtaacg 60
117      atcacttgca aatcctctca gtcagtattg tactccagca accagaagaa ctacctggcc 120
118      ggatatcagc agactcccg gaaagcccca aagttgctga tttattgggc ctccacgcgc 180
119      gagtctggcg tgccatcacg ctttagcggc agcgggtccg gtacagatta cacgtttacc 240
120      attagcagtc tgcagcctga ggacatagcc acctactact gtcaccagta ctttagttcc 300
121      tacacttttg gccagggaac taaactgcag attactcga 339
123 <210> SEQ ID NO: 7
124 <211> LENGTH: 357
125 <212> TYPE: DNA
126 <213> ORGANISM: Mus Musculus
127 <400> SEQUENCE: 7
128      gaggtccagc tgcagcagtc tggacctgag ctggtaaagc ctggggcttc agtgaagatg 60
129      tcctgcaagg cttctggata cacattcact agctatgtta tgcactgggt gaagcagaag 120
130      cctgggcagg gccttgactg gattggatat attgttcctt acaatgatgg cactaagtac 180
131      aatgagaagt tcaaaggcaa ggccacactg acttcagaca aatcctccag cacagcctac 240
132      atggagctca gcagactgac ctctgaggac tctgcggtct attattgtgt ctacggtagt 300
133      aggtacgact ggtatttaga tgtctggggc gcagggacca cggtcaccgt ctctca 357
135 <210> SEQ ID NO: 8
136 <211> LENGTH: 339
137 <212> TYPE: DNA
138 <213> ORGANISM: Mus Musculus
139 <400> SEQUENCE: 8
140      aacattatga tgacacagtc gccatcatct ctggctgtgt ctgcaggaga aaaggctcact 60
141      atgagctgta agtccagtc aagtgtttta tacagttcaa atcagaagaa ctacttggcc 120
142      tggtagcagc agaaaccagg gcagtctcct aaactgctga tctactgggc atccactagg 180
143      gaatctgggtg tccctgatcg cttcacaggc agtggatctg ggacagattt tactcttacc 240
144      atcagcagtg tacaagctga agacctggca gtttattact gtcacataa tttctcctca 300
145      tacacgttcg gaggggggac caagctggaa ataaagcgg 339
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 119
149 <212> TYPE: PRT
150 <213> ORGANISM: Homo Sapiens

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151 <400> SEQUENCE: 9
152   Gln Val Gln Leu Val Glu Ser Gly Gly Gly Val Val Gln Pro Gly Cys
153     1           5           10           15
154   Ser Leu Arg Leu Ser Cys Ser Ser Ser Gly Tyr Thr Phe Thr Ser Tyr
155           20           25           30
156   Thr Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Ile
157           35           40           45
158   Gly Tyr Ile Asn Pro Tyr Asn Asp Gly Gly Lys Tyr Asn Glu Lys Phe
159           50           55           60
160   Lys Trp Arg Phe Ser Ile Ser Ser Asp Lys Ser Lys Asn Thr Leu Phe
161           65           70           75           80
162   Leu Gln Ser Asp Ser Leu Thr Pro Glu Asp Thr Gly Val Tyr Tyr Cys
163           85           90           95
164   Ala Arg Gly Ser Arg Tyr Asp Trp Tyr Gly Asp Tyr Trp Gly Gln Gly
165           100          105          110
166   Thr Pro Val Thr Val Ser Ser
167           115
169 <210> SEQ ID NO: 10
170 <211> LENGTH: 113
171 <212> TYPE: PRT
172 <213> ORGANISM: Homo Sapiens
173 <400> SEQUENCE: 10
174   Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Gly Ser Val Gly
175     1           5           10           15
176   Asp Arg Val Thr Ile Thr Cys Asp Ser Ser Gln Ser Val Leu Tyr Ser
177           20           25           30
178   Ser Lys Asp Asp Asn Tyr Leu Ala Trp Tyr Gln Gln Gly Pro Gly Lys
179           35           40           45
180   Ala Pro Ser Leu Leu Ile Tyr Tyr Ala Ser Asp Arg Glu Ser Asp Val
181           50           55           60
182   Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Asp Asp Tyr Thr Leu Thr
183           65           70           75           80
184   Ile Ser Ser Leu Gln Pro Glu Asp Ala Ala Thr Tyr Tyr Cys His Gln
185           85           90           95
186   Trp Phe Ser Ser Tyr Thr Phe Asp Gln Gly Thr Lys Leu Asn Ile Thr
187           100          105          110
188   Arg
190 <210> SEQ ID NO: 11
191 <211> LENGTH: 357
192 <212> TYPE: DNA
193 <213> ORGANISM: Homo Sapiens
194 <400> SEQUENCE: 11
195   caggtgcagc tgggtggagtc tggcgggtgga gtggtccagc cgggctgcag cctgaggctg 60
196   tcctgcagta gctctggcta caccttcacc agctacacca tgacatgggt gcgccaagcc 120
197   cccggaaagg gcctcgaatg gattggctac attaatcctt ataatgacgg tgggaagtac 180
198   aatgaaaagt tcaagtggag attttcaata tcaagtgaca agagcaagaa caccctgttc 240
199   ctccaaagcg acagcttgac ccagaggac accggcgtat actattgtgt gcgcggcagc 300
200   cgttacgact ggtacgggga ctactggggc caaggcactc cagtcaccgt ctctct 357
202 <210> SEQ ID NO: 12

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203 <211> LENGTH: 339
204 <212> TYPE: DNA
205 <213> ORGANISM: Homo Sapiens
206 <400> SEQUENCE: 12
207     gacatccaga tgactcagag cccatccagc ttgagcggct cagtaggcga ccgcgtaacg 60
208     atcacttgcg actcctctca gtcagtattg tactccagca aagacgacaa ctacctggcc 120
209     ggatatcagc aggggcccgg caaagcccca agcttgctga tttattatgc ctccgaccgc 180
210     gagtctgacg tgccatcacg ctttagcggc agcgggtccg gtgatgatta cacgctgacc 240
211     attagcagtc tgcagcctga ggacgccgcc acctactact gtcaccagtg gtttagttcc 300
212     tacacttttg accaggggaac taaactgaac attactcga 339
214 <210> SEQ ID NO: 13
215 <211> LENGTH: 22
216 <212> TYPE: PRT
217 <213> ORGANISM: Homo Sapiens
218 <400> SEQUENCE: 13
219     Met Asp Phe Gln Val Gln Ile Phe Ser Phe Leu Leu Ile Ser Ala Ser
220         1             5             10             15
221     Val Ile Ile Ser Arg Gly
222         20
224 <210> SEQ ID NO: 14
225 <211> LENGTH: 67
226 <212> TYPE: DNA
227 <213> ORGANISM: Homo Sapiens
228 <400> SEQUENCE: 14
229     atggattttc aggtgcagat tttcagcttc ctgctaataca gtgocctcagt cataatatcc 60
230     agaggag 67

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**VERIFICATION SUMMARY**

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